

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  DCR/P34241WO	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No.  PCT/GB2004/003267	International filing date (day/month/year)  28/07/2004	(Earliest) Priority Date (day/month/year)  28/07/2003
Applicant  ELECTROMAGNETIC GEOSERVICES AS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003267

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01V3/15 G01V3/06 H01Q1/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01V H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 617 518 A (SRNKA LEONARD J) 14 October 1986 (1986-10-14) column 4, line 27 - column 5, line 41 column 8, lines 25-66 figures 1,2	1,3-9, 18,21-35
A		10-17, 19,20
X	WO 03/034096 A (SINHA MARTIN C ; MACGREGOR LUCY M (GB); UNIV SOUTHAMPTON (GB)) 24 Apr11 2003 (2003-04-24)	1,2,4-9, 18,24, 25, 28-30, 33-35
A	page 2, line 15 - page 3, line 16 figures 1,2	10-17, 19-23, 26,27
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*g\* document member of the same patent family

Date of the actual completion of the international search

7 October 2004

Date of mailing of the international search report

13/10/2004

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

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PCT/GB2004/003267

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 236 211 B1 (WYNN JEFFREY C) 22 May 2001 (2001-05-22)  column 3, line 56 - column 4, line 58 column 5, line 27 - line 54 figures 1,2  -----	1,4-6,9, 18,21, 22,25, 32-35
X	US 2003/050759 A1 (CARAZZONE JAMES J ET AL) 13 March 2003 (2003-03-13)  paragraph '0046! figure 5  -----	1,4, 15-17, 33-35
X	US 4 298 840 A (BISCHOFF JUERGEN H ET AL) 3 November 1981 (1981-11-03) column 2, line 29 - column 3, line 15 figures 1-3  -----	1,4,7-9, 33-35

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/003267

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4617518	A	14-10-1986	AU 3571784 A ES 8606671 A1 FR 2555322 A1 GB 2155182 A JP 60135783 A NL 8403541 A NO 844614 A	30-05-1985 01-10-1986 24-05-1985 18-09-1985 19-07-1985 17-06-1985 22-05-1985
WO 03034096	A	24-04-2003	GB 2381137 A EP 1436645 A1 WO 03034096 A1	23-04-2003 14-07-2004 24-04-2003
US 6236211	B1	22-05-2001	NONE	
US 2003050759	A1	13-03-2003	BR 0211611 A CA 2458170 A1 EP 1433090 A1 WO 03025803 A1	24-08-2004 27-03-2003 30-06-2004 27-03-2003
US 4298840	A	03-11-1981	GB 1588495 A AU 527685 B2 AU 4716879 A CA 1130385 A1 DK 203179 A ,B, EP 0005872 A1 NO 791652 A ,B, NZ 190474 A	23-04-1981 17-03-1983 22-11-1979 24-08-1982 20-11-1979 12-12-1979 20-11-1979 31-05-1982

10/565725  
IAP6 Rec'd PCT/PTO 24 JAN 2006

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Application No: GB0317649.2

Examiner: Simon Colcombe

Claims searched: 1-35

Date of search: 10 November 2004

**Patents Act 1977: Search Report under Section 17****Documents considered to be relevant:**

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X,E	1, 4, 33-35 at least	GB2390904 A (UNIVERSITY OF SOUTHAMPTON) Fig 2B, page 17 lines 27-28, & page 19 lines 25-28, in particular.
X	1, 33-35 at least	GB2155182 A (EXXON) Page 4, lines 15-48 in particular.
X	1, 33-35 at least	GB1588495 A (SHELL) Whole document
X	1, 33-35 at least	US6236211 B1 (US INTERIOR SEC) Whole document
X	1, 2 at least	GB188676 A (IONIDES) Fig 2 in particular
X	1 at least	EP0568612 A1 (SORENSEN) Whole document
X	1 at least	US4041372 A (CONTINENTAL OIL) Whole document

**Categories:**

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

**Field of Search:**Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>W</sup> :

G1N

Worldwide search of patent documents classified in the following areas of the IPC<sup>07</sup>



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G01V

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC, JAPIO

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Fax: (+31-70) 340-3016

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